

Team reflection course week 4 (week 18)

Team 22

Design decisions and product structure

how your design decisions (e.g., choice of APIs, architecture patterns, behaviour) support customer value

- **A:** Our product owner asked for two specific design details. Firstly they wanted homogeneity, which means that each fragment would look like the other ones considering general design, like the format of buttons, the format of code etc. Secondly, they wanted that the options in each stage of the app would be obvious, i.e. they demanded simplicity and clarity. Thereby, our design is based on what the customers value and we will get constant feedback from the product owners to create maximal customer value regarding design.
- **B:** Our goal is to create maximal customer value regarding design and use different API's, patterns etc to succeed in providing our customers with simplicity and clarity.
- **A → B:** To achieve our goal we believe that the main key is communication. Both within the group and with our product owners. Thereby, we believe that we will reach our goal to create a design that gives our customers maximal value.

which technical documentation you use and why (e.g. use cases, interaction diagrams, class diagrams, domain models or component diagrams, text documents)

- **A:** Up to this point we have used a domain model and smaller mockup designs to demonstrate how the application is supposed to be built up and connected both in the functionality aspect as well as the graphical aspect. We decided to use these because we felt that they were both effective ways to conceptualize the application quickly and make everyone in the group on the same page.
- **B:** The first domain model we created is now already a bit outdated, so creating a new and improved one will both refocus and refreshen the group on the structure of the application.
- **A → B:** We can achieve this as a group coming together in our next sprint meeting (4th may) and figuring out a way to update our current domain model by looking at what we have achieved in the project at the moment and seeing where the differences lie.

how you use and update your documentation throughout the sprints

- **A:** We continuously look at our domain model (which we will update soon) and our mockups to help our progress forward. We update these in a sporadic manner.
- **B:** The goal is to update these periodically to ensure that the quality of the documents is high.
- **A → B:** To achieve this goal, we have to look back at these documents once a week in a meeting to have an open dialog if they need to be updated or not.

how you ensure code quality and enforce coding standards

- **A:** So far, we have agreed upon using the common coding standards of Java which we have been taught in our different courses, the most common ones can be found [here](#). To make sure that we keep the code clean, we frequently check the naming of methods and variables and change them when we write new code and another name suits better. When implementing our domain model in Java, we are going to follow common design patterns as well.
- **B:** Our goal is to ensure code quality to make the code maintainable, easy to understand and reusable. Our goal is also to create tests which finds as many mistakes as possible in our code. By implementing tests for all public methods in our model, we make sure that the functions work for (most) edge cases, this makes our code more maintainable when writing new code as well as helps us finding and minimizing the amount of bugs.
- **A → B:** To achieve this goal, we have to continue following our coding standards and make sure that we have good naming for our functions and variables. We also have to write tests regularly and as soon as possible after a function has been created.

Application of Scrum

the roles you have used within the team and their impact on your work

- **A:** So far we have used two specific roles, which is scrum master and product owner. We did not have a dedicated scrum master the first week, which ended up in long meetings and everyone talked without any structure. For the next sprint we assigned Robin to be the scrum master which has impacted our work a lot. Our standups are short and we only talk about the necessary stuff. We also dedicated a product owner for this week. With both a scrum master and a product owner we have prioritised the user stories better and used scrum in a better way over all.
- **B:** All team members should have a good idea of how we can use scrum in a productive way and how that can impact the way we solve problems.

- **A → B:** Change the scrum master from week to week so everyone can try out the role, but also to look back on the last sprint to see what went good and what went bad, to learn from sprint to sprint.

the agile practices you have used and their impact on your work

- **A:** So far use the standard way of working with sprint planning, sprint review, standups and retrospective. But we are also used to the practice of working in parallel. This has impacted our work to the better, to learn from sprint to sprint. But also to be more productive and to get more stuff done during each sprint.
- **B:** Get better at planning the sprints and priorities the user stories even better. Also to take care of our meetings and learn the most from them, for example to think about all bad things during a sprint so we don't do the same problem twice.
- **A → B:** Talk more to each other about the specific sprint and let the scrum master be prepared with some questions to answer every week and let everyone say their thoughts so we can make sure to solve all problems.

the sprint review and how it relates to your scope and customer value (Did you have a PO, if yes, who?, if no, how did you carry out the review? Did the review result in a re-prioritisation of user stories? How did the reviews relate to your DoD? Did the feedback change your way of working?)

- **A:** Theo was our internal product owner this week and he was important when we decided which user stories we choose to move to the sprint backlog this week. Furthermore, he was the one reviewing the progress when we had our last standup-meeting of the week. After discussions we came up with the idea that we have to reprioritise to next week and really think through which user stories we will move. After the week we added a new part of DoD. That the JavaDoc should be updated or at least that the methods would have comments.
- **B:** Our goal is that we, at the end of the project, feel that we used the sprint review in an acceptable way and that this contributed to our final app positively.
- **A → B:** To reach our goal, we believe that accuracy is the key. That we never rush through one of these reviews without always carrying them out carefully.

best practices for learning and using new tools and technologies (IDEs, version control, scrum boards etc.; do not only describe which tools you used but focus on how you developed the expertise to use them)

- **A:** At the moment, we have had continuous and clear communication with each other about every tool/technology. This has ensured us to always be there to help each other. For e.g GitHub, a workshop was held for everyone that was not very confident about it. Pair-programming has also played a huge role for us in order to learn and use new tools and technologies.
- **B:** The goal is to be open and innovative about what methods to use, or what material to provide (Youtube, articles etc), when teaching other group members a new technology or tool.
- **A → B:** To achieve this goal, we need to have a more clear communication about how every group member learns the best and adapt according to that.

relation to literature and guest lectures (how do your reflections relate to what others have to say?)

- **A:** For now, we have focused a lot on getting a deeper understanding on the method and we have experienced that the best ways of doing this is by using lecture material that is based on literature and by getting constant feedback by our supervisor. We haven't been using other external literature so far in the process.
- **B:** Our goal is to use scrum in an optimal way. We haven't come up with a specific way of doing this.
- **A → B:** so far, we think that the way we do now is good enough. If we, in the future, witness that we need to use external literature to get a deeper understanding, we won't hesitate to use it.